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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/815,222	03/31/2004	Andrew Ginter	VRS-00101	7200

7590 02/15/2006  
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EXAMINER

VU, VIET DUY

ART UNIT	PAPER NUMBER
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2154

DATE MAILED: 02/15/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

10/815,222

Applicant(s)

GINTER ET AL.

Examiner

Viet Vu

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 12 December 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 121-166, 175 and 176 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 121-166, 175 and 176 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>10/04; 8/04</u> . | 6) <input type="checkbox"/> Other: _____  |

**Art Rejections:**

1. The text of 35 USC 103(a) not cited here can be found in the previous office action.

2. Claims 121-127, 129-133, 141-148, 150-154, 162-166, 175 and 176 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kronenberg et al, U.S. pat. Appl. Pub. No. 2004/0030778, in view of Varga et al, U.S. pat. No. 6,181,981.

Per claims 121-124, Kronenberg discloses a method and system for monitoring an industrial network comprising:

a) providing a plurality of agents for executing at a plurality of computers and control systems in an industrial network (see page 3, par. 46),

b) reporting first data about a first computer system by a first agent executing on the first computer system in the industrial network to a controlling site, the first computer system performing at least one of: monitoring or controlling a physical process of said industrial network such as file monitoring, log file, login, etc., (see page 2, par. 37-39).

Kronenberg also teaches using other conventional communication connections as an alternate communication link for sending monitored data to the controlling site (see page 3, par. 46). Kronenberg does not explicitly teach sending data over a

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one-way communication connection. The use of one-way communication for sending monitored data to a data collecting site is well known in the art as disclosed by Varga (see Varga in col 6, lines 45-50).

It would have been obvious to one of ordinary skill in the art to utilize a one-way communication connection in Kronenberg for sending data because it would have provided a cheaper alternative communication link for sending data (see Varga in col 6, lines 45-50).

Kronenberg does not explicitly teach reporting information about software used in connection with a particular physical process. It is however noted that many applications at the monitored sites are software-based applications, e.g., authentication, firewalls, network traffic monitoring, etc., (see page 2, par. 37).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to realize such software information reporting in Kronenberg because it would have enabled identifying the problems associated with the (software-based) applications (see page 2, par. 39 and page 5, par. 73).

Per claims 125-127, Kronenberg teaches that the software agents include a master agent and other software agents for performing a set of monitoring tasks (see page 2, par. 38).

Per claims 129-131, Kronenberg teaches using a state transition or event-based model that monitors (open/closed) status of a connection port to detect a drop of connection or a new connection (see page 8, par. 109). It would have been obvious to one skilled in the art to utilize such monitored information for a performance analysis application, e.g., number of reported open/closed ports that appear abnormal (see page 4, par. 52).

Per claims 132-133, Kronenberg teaches using rules to analyze the monitored events to detect unauthorized/undesired processes and to determine appropriate corrective actions (see page 4, par. 52 and 58). It would have been obvious to one skilled in the art to utilize such monitored information for a security application, e.g., activity that appears suspicious, e.g., unauthorized access of web site (see page 4, par. 52).

Per claim 141, Kronenberg teaches processing and sending periodical report (see page 6, par. 78). Kronenberg does not explicitly teach applying particular rule for sending the report such as a predetermined data size or a fixed report schedule.

It would have been obvious to one skilled in the art at the time the invention was made to apply any arbitrary rule to the report data including size of the report and time for sending

the report because such rules would have enabled processing the report more easily.

Claims 142-148, 150-154, 162-166 and 175-176 are similar in scope as that of claims 121-127, 129-133 and 141.

3. Claims 128, 134-140, 149 and 155-161 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kronenberg and Varga, and further in view of Schlossberg et al, U.S. pat. Appl. Pub. No. 2002/00660034.

Kronenberg does not explicitly teach handling specific attacking attempts monitored at the security device, e.g., firewall. Schlossberg teaches a network security system for detecting and handling network attacks. Particularly, Schlossberg discloses:

a) detecting suspicious activity in the network (see Schlossberg in page 5, par. 53-54),

b) performing data matching to determine events of interest and assessing a level of threat (see Schlossberg in page 7, par. 63),

c) creating a message for reporting to the management unit,

d) encrypting the message before sending the message (see Schlossberg in page 8, par. 74),

e) decrypting the received message (see Schlossberg in page 7, par. 60 and fig. 7).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Kronenberg with Schlossberg's teaching because it would have enabled sufficient handling of network attacks in Kronenberg.

Per claims 135-136 and 156-157, Schlossberg teaches blocking access or shutting down the device, e.g., firewall, in response to an identified attack (see Schlossberg in page 8, par. 76). It is noted that such changes in operation would reflect on the device configuration.

It would have been further obvious to one of ordinary skill in the art at the time the invention was made to recognize that log data would include any such changes in operation of the device.

**Response to Amendment:**

4. Applicant's arguments filed on 12/12/05 with respect to claims 121-166 and 175-176 have been fully considered but they are not deemed persuasive.

Per claim 121, applicant asserts that Kronenberg does not teach sending the report over a one-way communication connection as required by the present claims.

The examiner submits that the use of one-way communication link for sending the monitored data is now shown by Varga as discussed above.

Applicant also alleges that Kronenberg fails to teach reporting software in connection with a physical process.

The examiner disagrees. Kronenberg teaches monitoring and reporting plural network services that are clearly software-based services, e.g., emails, firewalls, encryptions, etc., (see page 2, par. 37). Thus a report of such a service would have obviously comprised identification of the software application that runs the service.

Per claims 125-126, applicant alleges that Kronenberg fails to teach executing a master agent at the monitored site.

The examiner disagrees. Kronenberg teaches executing a plurality of agents on both controlling server and client (monitored) sites. Since the present claims do not explicitly require executing the master agent at the monitored site as applicant alleged, Kronenberg teachings appear to meet the claim limitations.

Per claims 130-131, applicant alleges that Kronenberg does not teach monitoring whether number of open connections rises above or falls below a certain level.



The examiner disagrees. Kronenberg teaches monitoring open/closed connections (see page 8, par. 109). Kronenberg also teaches conducting performance analysis on the monitored data (see page 4, par. 52). Those teachings clearly make obvious an application of any performance related criteria to the monitored data.

Per claims 132-133, applicant alleges that Kronenberg fails to teach processing monitored data (i.e., generating a report) at the monitored site.

The examiner disagrees. As discussed above, Kronenberg teaches using a plurality of agents on both controlling site and monitored sites to process the monitored data. Since the present claims do not clearly require processing monitored data at the monitored site as alleged by applicant, Kronenberg teachings appear to meet the claim limitations.

Per claim 141, the examiner has revised to rejection of claim 141 as set forth above to address applicant's remarks.

**Conclusion:**

5. Applicant's amendment necessitated the new grounds of rejection. Accordingly, **THIS ACTION IS MADE FINAL**. See M.P.E.P. § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 C.F.R. § 1.136(a).

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A SHORTENED STATUTORY PERIOD FOR RESPONSE TO THIS FINAL ACTION IS SET TO EXPIRE THREE MONTHS FROM THE DATE OF THIS ACTION. IN THE EVENT A FIRST RESPONSE IS FILED WITHIN TWO MONTHS OF THE MAILING DATE OF THIS FINAL ACTION AND THE ADVISORY ACTION IS NOT MAILED UNTIL AFTER THE END OF THE THREE-MONTH SHORTENED STATUTORY PERIOD, THEN THE SHORTENED STATUTORY PERIOD WILL EXPIRE ON THE DATE THE ADVISORY ACTION IS MAILED, AND ANY EXTENSION FEE PURSUANT TO 37 C.F.R. § 1.136(a) WILL BE CALCULATED FROM THE MAILING DATE OF THE ADVISORY ACTION. IN NO EVENT WILL THE STATUTORY PERIOD FOR RESPONSE EXPIRE LATER THAN SIX MONTHS FROM THE DATE OF THIS FINAL ACTION.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Viet Vu whose telephone number is 571-272-3977. The examiner can normally be reached on Monday through Thursday from 8:00am to 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Follansbee, can be reached on 571-272-3964.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



VIET D. VU  
PRIMARY EXAMINER

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2/6/06